

ABSTRACT

[1094] Techniques for selectively combining multiple transmissions to recover a message comprised of multiple frames. Initially, each transmission is separately processed to recover the message. If the message cannot be recovered error-free from any single transmission, then portions of multiple transmissions are selectively combined to recover the message. Erased frames in a message recovered from a primary transmission (e.g., the one with the best pilot E_c/I_0) and good frames from other transmissions are determined (e.g., based on the frame-level CRC). One or more combined messages are then formed, each including a different set of good frames substituting for the erased frames. If a good frame cannot be derived from any single transmission for a given erased frame, then symbols from multiple transmissions may be combined to derive the good frame. Each combined message is checked (e.g., based on the message-level CRC) to determine whether it is good or erased.

Approved for Release